

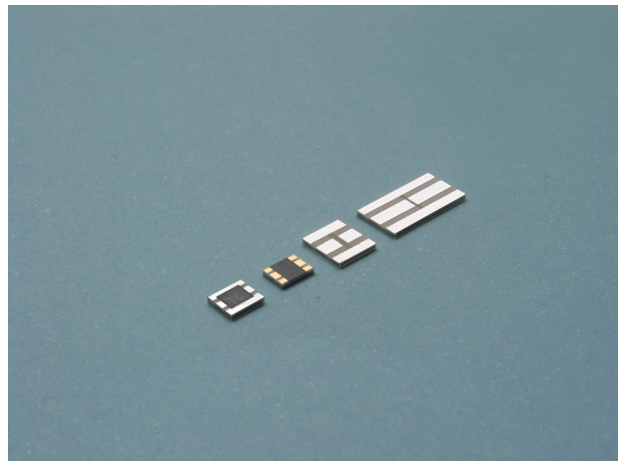
高周波同軸アッテネータ

COAXIAL

RF POWER ATTENUATORS

RFA-54, RFA-55

RFA-85, RFA-67, RFA-37



特長用途

RFA-54D, RFA-84D, RFA-67D, RFA-37D は、平衡同軸アッテネータ用、両端の電極を同軸外周金属ケースに、中心電極を同軸中心軸に、それぞれ、はんだ付し実装。許容電力は、同軸外周金属ケースの表面積に依存します。RFA-55DD は、コプレーナ伝送線路の表面実装用。

環境温度に対する変化が少なく、長期間にわたって安定動作するアッテネータ。形式7桁目 D は、平衡型減衰器を示し、S、不平衡型も提供できますから、お問い合わせください。8 桁目の D は特性インピーダンスが 50Ω、C は 75Ωであることを示す。

半導体製造設備、半導体試験装置、移動体通信の固定設備、マイクロ波送信機、高周波電源装置、工業計測機器、医用電子機器など。

Features and Applications

RFA-54D, RFA-84D, RFA-67D, RFA-37D are used for balanced coaxial attenuators, and are durable with large rated power.

In RFA-55DD, face down configuration on co-planer line show better return loss characteristics.

RFA-68D, 1.5GHz-30W, by attached to the heat sink direct, small size power attenuator.

Long life and temperature stability of thin film technology realize better performance at a temperature range from -55C to +155C.

Applications include gain control circuits, isolation circuits of power boost amplifiers at GHz, loss compensation of transmission line of data communication systems, detecting signal control of ATE-LSI test system-circuit board functional test systems, industrial measurement electronics, medical scientific electronics and miscellaneous communication systems.

仕様性能 Specifications and Performances

形名 P/N	形状 Type	特性インピーダンス Impedance (*2)	減衰量(*1) Attenuation (*1)	周波数範囲 Frequency	定格電力 Rate Power
RFA-54DD	平衡同軸 Coaxial	50Ω	1,2,3,4,5,6,7,8,9,10,20,30,40 dB	DC- 4GHz	0.25W
RFA-55DD	表面実装 SMD	50Ω	1,2,3,4,5,6,7,8,9,10,20,30,40 dB	DC- 4GHz	0.25W
RFA-85DD	平衡同軸 Coaxial	50Ω	1,2,3,4,5,6,7,8,9,10,20,30,40 dB	DC- 3GHz	0.50W
RFA-67DD	平衡同軸 Coaxial	50Ω	1,2,3,4,5,6,7,8,9,10,20,30,40 dB	DC- 3GHz	1.00W
RFA-37DD	平衡同軸 Coaxial	50Ω	1,2,3,4,5,6,7,8,9,10,20,30,40 dB	DC- 3GHz	1.00W
RFA-54DC	平衡同軸 Coaxial	75Ω	1,2,3,4,5,6,7,8,9,10,20,30,40 dB	DC- 4GHz	0.25W
RFA-55DC	表面実装 SMD	75Ω	1,2,3,4,5,6,7,8,9,10,20,30,40 dB	DC- 4GHz	0.25W
RFA-85DC	平衡同軸 Coaxial	75Ω	1,2,3,4,5,6,7,8,9,10,20,30,40 dB	DC- 3GHz	0.50W
RFA-67DC	平衡同軸 Coaxial	75Ω	1,2,3,4,5,6,7,8,9,10,20,30,40 dB	DC- 3GHz	1.00W
RFA-37DC	平衡同軸 Coaxial	75Ω	1,2,3,4,5,6,7,8,9,10,20,30,40 dB	DC- 3GHz	1.00W

(*1) 減衰量の許容差(直流測定)は、次の通りです。

(*1) Attenuation Tolerance at DC areas shown in following.

1dB is option, 2,3,4,5,6db: +/-0.2dB, 7,8,9,10dB: +/-0.3dB, 20,30,40dB: +/-0.4dB

(*2) 16dB attenuation is available optionally.

(*3) 7th character of P/N, "D" means "balanced" and "S" means "unbalanced"

(*4) 8th character of P/N, "D" means impedance of 50Ω, and "C" ditto of 75Ω

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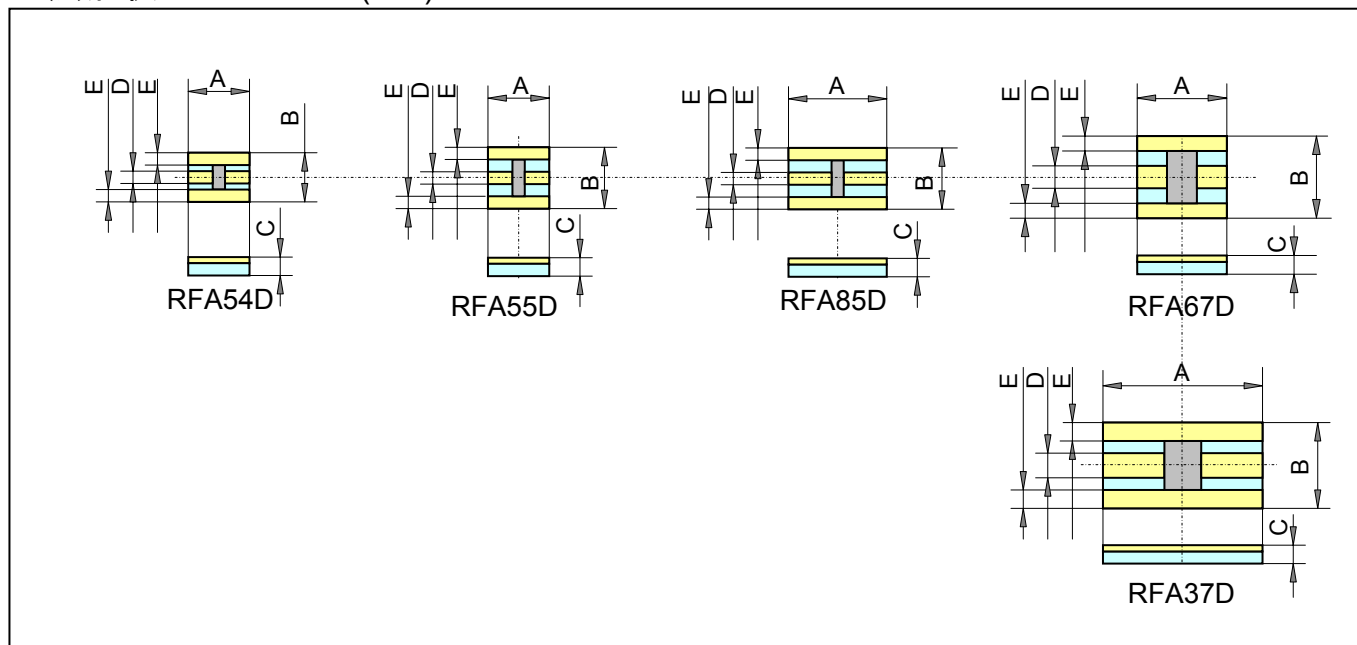
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形名呼称 Ordering Information

Ordering P/N	Type	Characteristic Impedance	Attenuation	Additional	Rating Power
RFA-54DD6dBZ00	RFA-54DD	50Ω	6dB	Z00	1/4W
RFA-55DD10dBZ00	RFA-55DD	50Ω	10dB	Z00	1/4W
RFA-85DD20dBZ00	RFA-85DD	50Ω	20dB	Z00	1/2W
RFA-67DD30dBZ00	RFA-67DD	50Ω	30dB	Z00	1W
RFA-37DD40dBZ00	RFA-37DC	55Ω	30dB	Z00	1W
RFA-54DC6dBZ00	RFA-54DD	75Ω	6dB	Z00	1/4W
RFA-55DC10dBZ00	RFA-55DD	75Ω	10dB	Z00	1/4W
RFA-85DC20dBZ00	RFA-85DD	75Ω	20dB	Z00	1/2W
RFA-67DC30dBZ00	RFA-67DD	75Ω	30dB	Z00	1W
RFA-37DC40dBZ00	RFA-37DC	75Ω	30dB	Z00	1W

寸法形状 Dimensions (mm)



Type	Power	A	B	C	D	E
RFA-54D	1/4W	5.00	3.80	0.70	1.20	0.80
RFA-55D	1/4W	5.00	4.50	0.70	1.20	1.00
RFA-85D	1/2W	8.00	5.25	0.70	1.40	1.10
RFA-67D	1W	6.00	7.00	0.70	2.00	1.40
RFA-37D	1W	13.00	7.00	0.70	2.00	1.40

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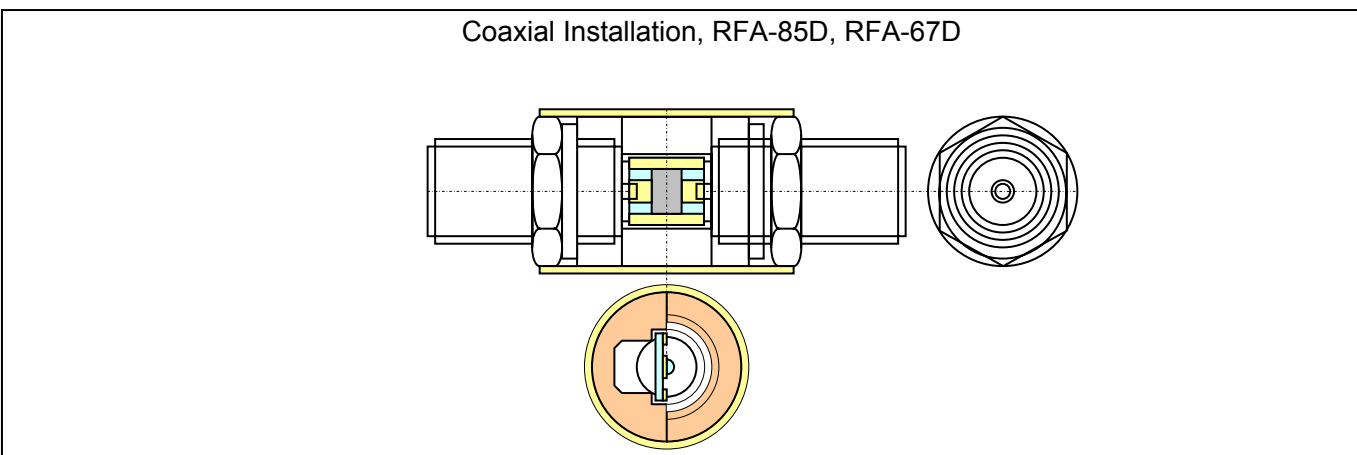
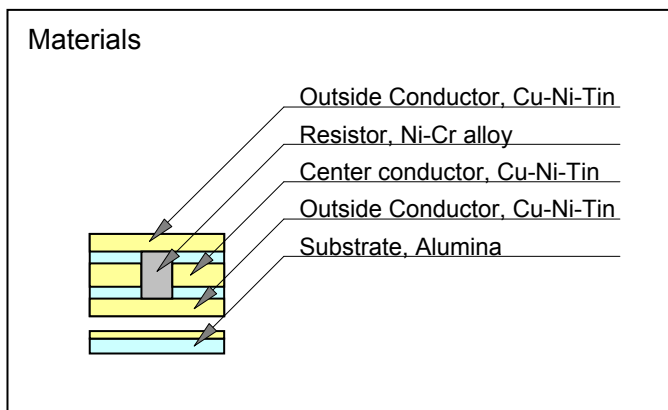
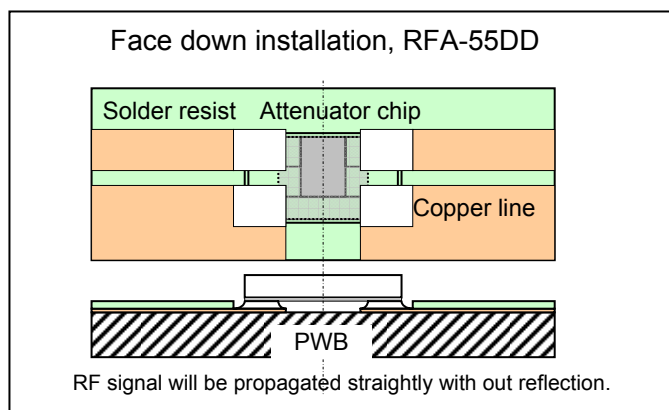
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性能仕様 Specifications

項目 Items	仕様 Specifications	条件 Test Conditions
特性インピーダンス Characteristic Impedance	50Ω or 75Ω	
特性インピーダンス許容差 Tolerance of Impedance	+/- 2% (G)	Input DC resistance in terminating output with resistor.
減衰量許容差 Tolerance of Attenuation	See Bottom of first page.	Output DC volt in terminating out put with resistor when stable 1V DC volt source connect to input.
特性インピーダンスの温度係数 TC of Impedance	+/- 50ppm/deg C	TC of input DC resistance in terminating output with resistor.
低減衰量の温度係数 TC of Attenuation	+/- 50ppm/deg C	TC of output DC volt in terminating out put with resistor when stable 1V DC volt source connect to input.
定格周囲温度 Rating Temperature	-55-70 deg C	
はんだ耐熱性 Soldering Heat	+/- 1%	350C, 3 seconds dipping.
はんだ付け性 Soldering capability	95% covered	
耐湿性 Humidity	+/- 1%	Input DC resistance change Under condition of 40C temp and 90-95RH, rating power ON-90min, OFF-30min, 1000h
定格負荷寿命 Load Life	+/- 1%	Input DC resistance change. Under condition of 70C temp, rating power ON-90min, OFF-30min, 1000h
動作温度範囲 Operating Temperature	-55deg C - +155deg C	
保存温度範囲 Storage Temperature	-55deg C - +155deg C	

Note: Above specifications are applied to RFA-54D, RFA-55D, RFA-85D, RFA-67D and RFA-37D.



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